

VERETNIK, L.D., kand.tekhn.nauk; BRIGIDIN, V.Ya., inzh.

Welding of Kh18Ni10T and U8A steel hockey skates. Svar.prizv. (MIRA 18:6)
no.5:28-29 My '65.

1. Khaŕ'kovskiy zavod transportnogo mashinostroyeniya im. V.A.
Malysheva.

SAVCHENKOV, V.A., kand. tekhn. nauk; NEVEREA, I.A., inzh.; LEPEYKO, I.P.,
inzh.; VERETNIK, L.D., kand. tekhn. nauk; CRIGORASH, G.I., inzh.

Reviews and bibliography. Svar. proizv. no.3:46 : Mr '65. (MIRA 18:5)

L 9776-66 EWT(d)/EWT(m)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(h)/EWP(l) IJP(c) JD	
ACC NR: AP5026296	SOURCE CODE: UR/0125/65/000/010/0063/0066
AUTHOR: <u>Vekretnik, L. D.</u> (Candidate of technical sciences; Khar'kov); <u>Valuyev, V. G.</u> (Engineer; Moscow) 44.55	
ORG: none	
TITLE: Correction of defects in thermally hardened castings of AL-3 aluminum alloy	
SOURCE: Avtomaticheskaya svarka, no. 10, 1965, 63-66	
TOPIC TAGS: aluminum alloy, metal casting, repair welding, metal defect, arc welding/ AL-3 aluminum alloy	
ABSTRACT: The machine parts made of various <u>aluminum</u> alloys frequently contain defects in the form of cavities, pores, poor penetration, discontinuities, etc. These defects are revealed in the process of the machining of alloy castings. Normally, the larger defects are welded up by means of soldering, electric arc welding, and gas welding. In this connection, the authors present the results of an experimental development of a new method of correcting defects in AL-5 aluminum alloy castings by means of argon arc welding before as well as after heat treatment. Specimens of this alloy, measuring 200x260x15-20 mm, were butt-welded with a 90° groove angle and, thereupon, subjected to heat treatment: slow heating for 2-3 hr to a hardening temp-	
Card 1/2	UIC: 621.791.019

L 9776-66

ACC NO: AP5026296

temperature of 520-525°C, with exposure to this temperature for 3-5 hr; quenching in water heated to 20-100°C; tempering at 230°C for 3-10 hr. The welded joints were tested for impact strength and fatigue strength and hardness, and were microstructurally examined. On the basis of these investigations, the technology of correcting defects in thermally hardened AL-5 castings was developed. The defective area must be cut out of the metal and the resulting cavity carefully cleaned and, thereupon, welded up by means of the UDAR-300 argon arc welding machine, with the welding current being selected as a function of wall thickness (e.g. 200-230 a for a 10 mm thick wall against 270-300 a for a 40 mm thick wall. AK and D-20 wire electrodes are recommended as the optimal filler material. The introduction of this method reduces to a large extent the percentage of defective castings and produces a considerable economic effect. Orig. art. has: 4 figures, 4 tables.

SUB CODE: 11,13/ SUBM DATE: 21Dec64/ ORIG REF: 003/ OTH REF: 000

BC
Card 2/2

VERETNIK, L.D.; KORINETS, I.F.

Introduction of welding in carbon dioxide for the manufacture
of diesel locomotive roofs. Avtom. svar. 15 no.3:68-72 Mr '62.
(MIRA 15:2)

1. Khar'kovskiy zavod transportnogo mashinostroyeniya imeni
Malyshova.

(Diesel locomotives...Welding)

VERETNIK, L.D., inzh.

Mechanizing the oxygen cutting of locomotive parts. Svar.proizv.
no.7:18-21 J1 '62. (MIRA 15:12)

1. Zavod transportnogo mashinostroyeniya Im. Malysheva.
(Gas welding and cutting--Equipment and supplies)
(Locomotives--Design and construction)

VERETNIK, L.D.; ASNIS, A.Ye.

Heat treatment of welded blocks in diesel locomotives.
Avtom.svar. 15 no.10:57-62 0 '62. (MIRA 15:11)

1. Khar'kovskiy zavod im. Malysheva (for Veretnik).
2. Ordena Trudovogo Krasnogo Znameni Institut
elektrosvarki im. Ye.O. Patona AN UkrSSR (for Asnis).
(Diesel locomotives--Welding)

VERETHIK, L.D. (Khar'kov)

Straightening thin-sheet welded structures with use of a
gun-type graphite electrode holder. Avtom.svar. 13 no.7:
84-86 J1 '60. (MIRA 13:7)

(Sheet metal--Welding)
(Electric welding--Equipment and supplies)

VERETNIK, L. D.

Introduction of mechanized welding in the manufacture of locomotive diesels. Avtom. svar. 13 no.8:67-72 Ag '60.
(MIRA 13:8)

1. Khar'kovskiy zavod transportnogo mashinostroyeniya im. V.A. Malysheva.

(Diesel engines--Welding)
(Welding--Equipment and supplies)

VARETNIK, L.D., inzh.; YURCHENKO, V.Yu., inzh.

Mechanized welding of a locomotive engine block. Svar.proisv.
no.3:27-29 Mr '59. (MIRA 12:4)

1. Khar'kovskiy zavod transportnogo mashinontroyeniya im.
Malysheva.

(Diesel locomotives--Welding)
(Electric welding--Equipment and supplies)

12(3)

AUTHORS:

SOV/35-59-9-12/23
Veretnik, L. D. and Chekulayev, V. E., Engineers

TITLE:

Diesel Locomotive TE-10 With Uniframe Body of Welded Construction

PERIODICAL:

Svarochnoye proizvodstvo, 1959, Nr 9, pp 33-35 (USSR)

ABSTRACT:

The authors present a report on the construction of a new type of diesel locomotive (TE-10). This diesel locomotive is constructed by the Khar'kov Transport Machine Building Plant imeni Malyshev. It has 3000 hp and will be used on the railway system. In comparison with other Soviet diesel locomotives (TE-3, TE-2, TE-1), the weight per horse power is low (46 kg/hp). The uniframe body (Fig 1) is a compound welded construction. Its weight is 17 tons, length of the body: 17.5 m, width: 3.1 m and height: 3.1 m. The speciality of this welded construction is that the body and frame constitute one part, and every element carries a certain part of the total load. The uniframe body consists of: 1) body-frame (Fig 2); 2) two cabins for the engine; (Fig 3); 3) two side walls; 4) cover on the cooler and

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SOV/135-59-9-12/23

Diesel locomotive TE-10 With Uniframe Body of Welded Construction

5) cover on the engine. All joints were done by semi-automatic welding with electrodes type E42 and E50. Tests have shown that all stresses were within the permissible limits and were not higher than 1400 kg/cm². The sagging in the middle part of the body amounts to 30 mm. There are 6 photographs.

ASSOCIATION: Khar'kovskiy zavod transportnogo mashinostroyeniya imeni Malysheva (Khar'kov Transport Machine Building Plant imeni Malyshev)

Card 2/2

~~VERETNIK, Ios. Danyilevich, inzh.;~~ KOZINETS, Pavel Vasil'yevich, kand. tekhn.
nauk; MERENTSEV, Sergey Pavlovich, inzh.; KHUTORIANSKIY, N.M., red.;
BOBROVA, Ye.N., tekhn. red.

[Compressors driven by diesel locomotives:] Teplovoznye kompressory.
Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 62 p. (MIRA 11:7)
(Compressors) (Diesel locomotives)

25(1)

SOV/135-59-3-13/24

AUTHORS: Veretnik, L.D., and Yurchenko, V.Yu., Engineers

TITLE: The Mechanization of the Welding of Diesel Locomotive Engine Blocks (Mekhanizatsiya svarki bloka teplovoznogo dvigatelya)

PERIODICAL: Svarochnoye proizvodstvo, 1959, Nr 5, pp 27-29 (USSR)

ABSTRACT: The article contains detailed technological information on the welding operations used in making the welded block of the new Diesel generator "2D100" for the Diesel locomotive "TE-3". The block (5.6 tons in weight) consists of 20 welded component units. Practical technological recommendations are given. There are 6 diagrams and 1 table.

ASSOCIATION: Khar'kovskiy zavod transportnogo mashinostroyeniya im. Malysheva (The Khar'kov Transportation Machinery Plant for Transportation im. Malyshev)

Card 1/1

VERETNIK, Lev Davydovich; DOTSENKO, N., red.; BEZP'YATOV, R.,
tekh.n.red.

[Construction of welded diesel generators] Vyhotovlennia
zvarnykh konstruktsei dyzel'-generatoriv. Kyiv, Derzh.vyd-vo
tekh.n.lit-ry URSR, 1958. 58 p. (MIRA 13:3)
(Electric generators--Welding)
(Diesel engines--Welding)

25(1)

SOV/135-59-5-16/21

AUTHOR: Veretnik, L.D., Engineer

TITLE: Straightening Welded Structures by Local Heating

PERIODICAL: Svarochnoye proizvodstvo, 1959, Nr 5, pp 37-40 (USSR)

ABSTRACT: This is a general review of the principles and practice of straightening welded structures by local heating, including the methods of symmetrical and unsymmetrical heating. To illustrate this, the straightening of the undercarriage of a ZD100 diesel and the longitudinal beam of the supporting frame of a TE-10 internal combustion locomotive is described. There are 7 diagrams.

ASSOCIATION: Khar'kovskiy zavod transportnogo mashinostroyeniya im. Malysheva (Khar'kov Transport Machine Building Plant imeni Malyshev)

Card 1/1

VERETNIK, L. D.

KOZINET, P.V., kandidat tekhnicheskikh nauk; ~~VERETNIK~~, L.D., inzhener;
TRUBACHEV, V.A., inzhener.

Dressing TE-3 diesel locomotive bodies. Svar. proizv. no. 4:
24-25 Ap '57. (MLRA 10:5)

1. Khar'kovskiy zavod transportnogo mashinostroyeniya.
(Diesel engines) (Electric welding)

Veretnik, L.D.

SUBJECT: USSR/Welding. 135-4-9/15

AUTHORS: Kozinets, P.V., Engineer, Veretnik, L.D., Engineer, and Trubachev V.A., Engineer.

TITLE: Straightening the Body of Diesel Locomotive "T3-3" (Pravka kuzovov teplovozov T3-3).

PERIODICAL: "Svarochnoye Proizvodstvo", 1957, # 4, pp 24-25 (USSR).

ABSTRACT: The article describes the new method for straightening out the bulges, caused by welding warpage, when the steel sheets of the body are welded to the frame of the diesel locomotive "T3-3", which is used at the Khar'kov Transport Machine Building Plant. The methods formerly applied, consist of corrugating the sheet edges or of symmetrical heating, or electric riveting instead of welding, had disadvantages that compelled to seek other solutions of the problem. It was found a better method to heat a bulge by torch to dark cherry-red in spots of 8-10 mm diameter 24-40 mm apart, depending on the size of the bulge, and cooling the heated spots by a stream of compressed air from the opposite side, but the new method, which is in use at the present time is still a better solution. It consists of spot-heating by a graphite electrode with a special holder connected to a "CT3-3"

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135-4-9/15

TITLE: Straightening the Body of Diesel Locomotive "T3-3" (Pravka kuzovov teplovozov T3-3).

transformer. There is no need to cool the metal from the other side, the work is done fast and without any fixtures. The bulges disappear nearly completely, i.e. the bulging may be 1 mm in 1 m length, whereas 3 mm in 1 m is permissible by the technical conditions. The graphite electrode leaves no traces on the metal surface.

The method is recommended for the production of buses, all-metal railway cars and similar constructions.

The article contains 2 sketches.

ASSOCIATION: Khar'kovskiy Zavod transportnogo mashinostroyeniya. (Khar'kov Transport Machine Building Plant).

PRESENTED BY:

SUBMITTED:

AVAILABLE: At the Library of Congress.

Card 2/2

VERETNIK, L.D. (Khar'kov); VALUYEV, V.G. (Moskva)

Correcting defects in heat-treated castings of Al-5 alloy.
Avtom. svar. 18 no.10:63-66 0 '65. (MIRA 18:12)

L 40801-66 EWP(e)/ENT(m)/EWP(r)/T/EWP(l)/ETI/EWP(x) LJP(g) JEP/DM/WH
ACC NR: AP6021006 SOURCE CODE: UR/0125/66/000/006/0048/0049

AUTHOR: Veretnik, L. D.; Brigidin, V. Ya.

ORG: Khar'kov Plant im. Malyshev (Khar'kovskiy zavod im. Malysheva)

53
50
B

TITLE: Manual argon-arc welding of thin-walled joints

SOURCE: Avtomaticheskaya svarka, no. 6, 1966, 48-49

TOPIC TAGS: metal joining, arc welding, welding technology, sheet metal, metallurgic research

ABSTRACT: Under conditions of small-series production it is expedient to weld elements of austenitic steels 0.2-0.7 mm thick to each other as well as to massive work parts by means of manual argon-arc welding. This is accomplished with the aid of a specially developed burner (Fig. 1) which can be readily constructed by any enterprise. One of its advantages is that almost all of its parts except the nozzle and collets are constructed of aluminum and so it weighs only 200 g. Its nozzle may be either of ceramic or of copper or of a combination of both (Fig. 2); it may be made as long as 100-120 mm to gain access to relatively inaccessible weld areas. The welding itself requires a special alignment of both elements of the weldment. Thus, e.g. butt joints (Fig. 3, a) of cylindrical siphons or flat plates 3 with wall thick-

UDC: 621.791.856

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L 40801-66

ACC NR: AP6021006

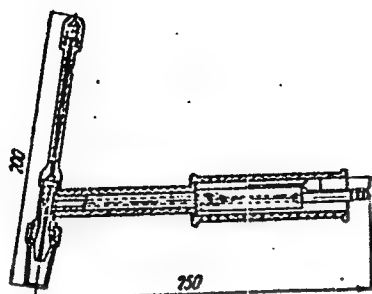


Fig. 1. Overall view of burner for argon-arc welding (with currents of up to 200 a)

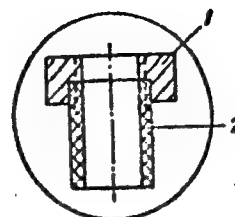


Fig. 2. Combination nozzle:

1 - copper; 2 - ceramic tube

ness of $\delta \geq 0.2$ mm require the use of specially aligned top and bottom tacks; the bottom tack is unnecessary if the elements are flanged in advance (Fig. 3, b). The welded joints experimentally produced in this manner were tested for airtightness in a vacuum of 10^{-6} mm Hg

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ACC NR: AP6021006

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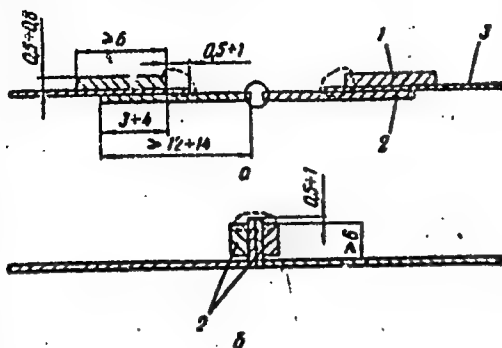


Fig. 3. Butt joints of sylphons or thin plates welded with the aid of:

a - top and bottom tacks; b - flanging

with the aid of helium leak detector; no leaks were detected. Orig. art. has: 5 figures.

SUB CODE: 13, 11/ SUBM DATE: 05Jul65/ ORIG REF: 000/

Card 3/3 vmb

VERETSUN, M.T.

Step-by-step pneumatic drives for valves and gates. Bum. prom.
37 no.7:25-27 J1'62. (MIRA 17:2)

1. Leningradskiy gosudarstvennyy institut po proyektirovaniyu
predpriyatiy tsellyuloznoy i bumazhnoy promyshlennosti.

VERETSUN, M.T.

Mechanized lid for digesters. *Bum.prom.* 38 no.2:24-25 P '63.
(MIRA 16:2)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy
tsellyuloznoy i kumazhnoy promyshlennosti. .
(Woodpulp industry--Equipment and supplies)

L 51052-65 EEO-2/EWT(1)/EEG(t)/EED-2 Pa-4/Pa-4/Pac-4/Pi-4/Pj-4/Pk-4/

PI-4 WR
ACCESSION NR AM5001148

BOOK EXPLOITATION

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60
Bt1

Dulevich, Vladimir Yevgen'yevich; Korostelov, A. A.; Mel'nik, IR. A.; Burevin, N. I.; Petrov, A. V.; Veretvagin, A. A.; Bandurko, M. G.

24 Theoretical principles of radar (Teoreticheskiye osnovy radiolokatsii), Moscow, Izd-vo "Sovetskoye radio", 1964, 731 p. illus., biblio., index. Errata slip inserted. 12,600 copies printed.

TOPIC TAGS: radar

PURPOSE AND COVERAGE: This book is intended for students in the radio engineering faculties of higher technical educational institutions and can serve as an aid to engineers and graduate students specializing in radar. The book examines the principles of radar, methods of coordinate measurement and scanning and circuits for radar stations of three types: with an operator, a continuous computer installation and a digital computer. It presents the characteristics of radar signals with a consideration of the statistical regularities that occur in the reflection of radio waves, their propagation, and the presence of noise on the signal. The book describes methods of building optimal and near optimal receivers considering statistical, spectral and frequency time characteristics of the signal and interference. The book estimates the maximum capacities

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ACCESSION NR AM5001448

of radar in detecting and measuring target coordinates. It gives a statistical evaluation of target position or trajectory on the basis of radar measurement data. In conclusion, the book describes methods of combating various types of interference and the operating principles of passive radar systems. All of the factual and numerical material is taken from the open domestic and foreign press.

TABLE OF CONTENTS (abridged):

- Ch. I. General information on radar equipment and methods of radar observation -- 5
- Ch. II. Methods of scanning and coordinate measurement -- 21
- Ch. III. Radar targets and characteristics of reflected signals -- 94
- Ch. IV. Range of radar observation -- 138
- Ch. V. Statistical evaluation of radar signal detectability -- 176
- Ch. VI. Optimal reception and detection of radar signals -- 205
- Ch. VII. Resolution, accuracy and sense of readings when measuring range and speed -- 276
- Ch. VIII. Resolution, accuracy and sense of readings when measuring angular coordinates -- 397

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ACCESSION NR AM5001448

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Ch. IX. Determining target bodies from the results of coordinate measurement -- 502

Ch. X. Determining target trajectory using radar -- 534

Ch. XII. Active interference and methods of combating it -- 574

Ch. XIII. Methods of protecting radar stations from passive interference -- 606

Ch. XIII. Passive radar -- 676

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SUBMITTED: 25 May 64

SUB CODE: DG

NO REF SOV: 250

OTHER: Old

Card *me* 2/3

DULEVICH, Vladimir Yevgen'yevich; KOROSTELEV, A.A.; MEL'NIK, Yu.A.;
BURENIN, N.I.; PETROV, A.V.; VERETYAGIN, A.A.; BANDURKO,
N.G.; IVANUSHKO, N.D., red.

[Theoretical principles of
diolokatsii. [By] V.E.Dulevich & dr. Moskva, "Sovetskoe
radio," 1964. 731 p.

Teoreticheskie osnovy ra-
(MIRA 17:8)

USSR / Pharmacology, Toxicology. Cardiovascular Drugs. V
Abs Jour: Ref Zhur-Biol., No 9, 1958, 42403.

Author : Veretvanyov, I. I.
Inst : Not Given.
Title : Treatment of Hypertension with Infusion of Eucommia Bark.

Orig Pub: Terapevt. arkhiv. 1957, 59, No 7, 63-66.

Abstract: One hundred fifteen patients were treated with a 20% infusion (I) of dry Eucommia bark. I was given perorally in doses of 20-40 drops, 3 times daily, for a period of 3 months. Subjective improvement (regardless of the stage of the disease) was noted in the first 3 weeks in 22% of the patients; within 8-10 weeks - 38 patients - 23%, reported slight improvement, associated with the sedative effects of I. At the end of treatment, 55 patients (stage

Card 1/2

VERETYANOV, I.I., kand.med.nauk (Riga)

Test for the hypoglycemic activity of rastinon in diabetes mellitus.
Probl.endok.i gorm. no.4:69-72 '62. (MIRA 15:11)
(UREA) (DIABETES)

SAVVAITOV, S.A., zasluzhennyy vrach Latvyskoy SSR; VERETYANOV, I.I.
kand. med. nauk (Riga).

Prevention of some diseases of the stomach and duodenum. Klin.
med. 40 no.11:14-20 N°62 (MIRA 16:12)

VIRETYANOV, I.I., podpolkovnik med.sluzhby

~~Studying two phases in the secretory reaction of the gastric~~
glands. Voen.med.zhur. no.8:36-39 Ag '58 (MIRA 12:1)
(STOMACH---SECRETIONS)

VERET'YANOV, I.I.

Treatment of hypertension with a Eucommia bark tincture. Terap.
arkh. 29 no.7:63-66 J1 '57. (MIRA 11:4)

(HYPERTENSION, therapy

Eucommia bark tincture (Rus)

(MUSCLE RELAXANTS, therapeutic use,

Eucommia bark tincture in hypertension (Rus)

VERETIANOV, I.I. (Riga)

Treatment of hypertension with a drug extracted from Rauwolfia
root. Klin.med. 35 no.5:65-70 My '57. (MLRA 10:9)
(RAUWOLFIA ALKALOIDS, ther. use
hypertension)
(HYPERTENSION, ther.
rauwolfia alkaloids)

VERETIANOV, I.I.

Treatment of hypertension with a tincture of eucommia bark. Voen.
med.zhur. no.12:57-58 D '56. (MLBA 10:3)

(HYPERTENSION, ther.

Cortex eucommiae)

(PLANTS, ther. use

Cortex eucommiae in hypertension)

VERETYANOV, I.I. (Riga)

Thin gastric catheter and Bykov-Kurtsin's method. Klin.med. 35
no.11:86-92 N '57. (MIRA 11:2)

(PEPTIC ULCER

gastric juice secretion determ. with Bykov-Kurtsin
tube)

(CATHETERIZATION

gastric, determ. of gastric juice in peptic ulcer with
Bykov-Kurtsin tube)

(GASTRIC JUICE

secretion in peptic ulcer, determ. with Bykov-Kurtsin
tube)

~~RESTRICTED~~
Apparatus for performing therapeutic procedure with the stomach
probe. Klin. med. 32 no.12:72-75 D '54. (MIRA 8:3)
(APPARATUS AND INSTRUMENTS
Appar. for introducing and performing procedure with
stomach probe.)

VERETIANOV, I.I. (Riga)

A simplified method of gastrogram recording. Klin. med. 32 no.12:
71-72 D '54. (MLRA 8:3)

(STOMACH, physiology
motility, gastrography simplified recording)

VERETIANOV, I.I., polkovnik meditsinskoy sluzhby

Some deficiencies in the diagnosis and treatment of emergency cases in
internal pathology. Voen.-med.zhur. no.10:27-31 '64. (MIRA 18:5)

VERETYNSKIY, V. I.

VERETYNSKIY, V. I.: "On the problem of presenting the basic points of the theory of relativity." Kiev, 1955. Min Higher Education USSR. Kiev State Pedagogical Inst imeni A. M. Gor'kiy (Dissertation for the Degree of Candidate of Pedagogical Sciences)

SO: Knizhnaya Letopis' No. 46, 12 November 1955. Moscow.

VEREVICHEV, F.V.

Use of coal suction devices for sewage removal in the sugar industry.
Sakh.prom. 35 no.7:43 J1 '61. (MIRA 14:7)
(Sugar industry--Equipment and supplies) (Sewage disposal)

VEREVICHEV, V.V., kand.tekhn.nauk

Examination of the experimental model of the OMT-30 optical
theodolite for mine surveying. Gor. zhur. no.6:67-69 Je '61.

(MIRA 14:6)

1. Khar'kovskiy gornyy institut.
(Mine surveying) (Theodolites)

VEREVICHEV, V.V.

Possibility of manufacturing the reading surfaces of the odolites
from plastic materials. Plast.massy no.5:35-37 '61. (MIRA 14:4)
(Theodolites) (Plastics)

VEREVICHEVA, L. V.

B. P Matsulevich and L. V. Verevicheva "The Value of the Serological Method as a Means of Determining the Infection of Potato Tubers by Virus Diseases," Zashchita Rastenii, no. 14, 1937, pp. 91-95. 421 P942

SO: Sira Si 90-53, 15 Dec 1953

VEREVICHEV, V. V.

"Certain Problems of Measuring Great Lengths by Means of Suspended Measuring Devices." Cand Tech Sci, Khar'kov Mining Inst, Min Higher Education USSR, Khar'kov, 1954. (KL, No 3, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: SUM No. 556, 24 Jun 55

4074 VEREVICHEV, V.V.

Nekotoryye voprosy izmereniya gol'shikh dlin podvesnymi' mernymi prigorami.
Khar'kov, 1954. 18 s. 20 sm. (M-vovyash. obrazovaniya SSSR. Khar'k. Gornyy
in-t). 100 ekz Bespl. - (54-56927)

VEREVICHENOV, V. V.

"Certain Problems of Measuring Great Particles by Means of Suspended Measuring Devices." Cand Tech Sci, Khar'kov Mining Inst, Min Higher Education USSR, Khar'kov, 1954. (KL. NO. 3, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13) SC: Sum. 554, 20 Jul 55

VEREVIN, F. P.

GOBZA, R. N., Inzhener i, VEREVIN, F. P., Inzh., SIMONOV, M. V., Inzh.

Vsesoyuznaya Kontora Tipovogo Proyektirovaniya I Tekhnicheskikh Issledovaniy
(KTIS) Mintyazhstroya

Issledovaniye Effektivnosti Pylesadochnykh Kmer NA Modelyakh

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SO: Collection of Annotations of Scientific Research Work on Construction, completed
in 1950. Moscow, 1951

VEREVIN, F. P.

GOBZA, R. N., Inzh 1, VEREVIN, F. P., Inzh.

Vsesoyuznaya Kontora Tipovogo Proyektirovaniya i Tekhnicheskikh Issledovaniy
(KTIS) Mintyashstroya.

Ochistka Vozdukha ot Pyli, Inertsionnyye Pyleotdeliteli Page 53

SO: Collection of Annotations of Scientific Research on Construction, completed
in 1950. Moscow, 1951

VEREVIN, F. P.

BAKHTINA, Ye. A., YAMPOLSKIY, T. C., Inzh., BAZHENKIV, V. P., Inzh., VEREVIN, F. P.,
Inzh.

Vsesoyuznaya Kontora Tipovogo Proyektirovaniya i Tekhnicheskikh Issledovaniy
(KTIS) Mintyazhstroya

Ventilyatornyye Gradirni

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SO: Collection of Annotations of Scientific Research Work on Construction, completed
in 1950. Moscow, 1951

POROYKOVA, V.S.; VEREVIN, V.S.; ARMENKOVA, N.A.

Effect of copper on the properties of an iron ceramic-metal
electrode in an alkaline storage battery. Izv.vys.ucheb.zav;
khim.i khim.tekh. 4 no.5:811-816 '61. (MIRA 14:11)

1. Ivanovskiy khimiko-tekhnologicheskii institut, kafedra
tekhnologii elektrokhimicheskikh proizvodstv.
(Electrodes, Iron)
(Copper)

VEREVKA, V.S. (Kiev, Dionisovskiy per., d. 15, kv.30)

New therapeutic blood preparation, a vitamin-enriched isogenous dry plasma, and its effect on the course of burns. Nov.khir.arkh. no.2: 15-20 Mr-Apr '57. (MLRA 10:8)

1. Kafedra khirurgii pediatricheskogo fakul'teta (zav. - prof. A.A. Fedorovskiy) Kiyevskogo meditsinskogo instituta
(BLOOD PLASMA SUBSTITUTES) (BURNS AND SCALDS)
(VITAMIN THERAPY)

VEREVKA, V.S.

Changes in the level of serum proteins in different stages of the burn disease. Trudy Kiev. nauch.-issl. inst. perel. krovi i neotlozh. khir. 3:23-26 '61. (MIRA 17:10)

1. Kafedra khirurgii pediatricheskogo fakul'teta Kievskogo meditsinskogo instituta imeni A.A.Bogomol'tsa.

SHLYCHKOV, M.I.; VEREVKIN, A.F., veterinarnyy vrach

Controlling dictyocaulosis in sheep. Veterinariia 41 no.7:
52-53 J1 '64. (MIRA 18:11)

1. Zaveduyushchiy parazitologicheskim otделom Kuybyshevskoy
Nauchno-issledovatel'skoy veterinarnoy stantsii (for Shlychkov).

VEREVKIN, A.I., brigader kompleksnoy brigady..

Hybrid corn seeds. Nauka i pred. op. v sel'khoz. 7 no.2:51-52 F '57.
(MIRA 10:3)

1. Kolkhoz imeni Budennogo, Krasnogvardeyskogo rayona, Krasnodarskogo
kaya. (Corn (Maize))

VEREVKIN, I.

KHARKEHURIM, Ye., inzh.-podpolkovnik; SHVABLO, A., inzh.-polkovnik; REVVA, P.,
inzh.-kapitan; VEREVKIN, I., kapitan; AFONIN, B., inzh.-kapitan.

Training of repairmen. Tankist no.1:22-25 Ja '58. (MIRA 11:3)
(Tanks (Military science)---Maintenance and repair)

MOGILEVSKAYA, S.Ye., kand. geol.-mineral. nauk; TUNIN, Ya.P.: VEREVKIN, N.I.,
inzh.

New results of the investigation of the quartz content in rock
and ore from the Gornaya Sioriia deposit. Gor. zhur. no.11:
75-76 N '64. (MIRA 18:2)

1. VostNIGRI (for Mogilevskaya, Verevkin). 2. Glavnyy geolog
Gornogo upravleniya Kuznetskogo metallurgicheskogo kombinata
(for Tunin).

KOGILEVSKAYA, E. Ye., kand. Geol.-mineral. nauk; ~~ISKRAKH, I. I., kand.~~
TUTIN, Ya. P.; ANDRIYEVICH, V. V.

Some results of the study of the material composition of dust
as a source of pneumoconiosis. Ber'ka s. 11. 45184-190 1/2
(MIRA 1981)

I. Vostochnyy nauchno-issledovatel'skiy gosudarstvennyy institut.

NOGILEVSKAYA, S. Ye., kand. geol.-mineral. nauk; VEREVKIN, N.I., inzh.

adequate net for rock sampling in the study of their silicosis
danger. Bor'ba s sil. 63191-198 '64 (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy gornorudnyy institut.

VEREVKIN N.I.

PANCHENKO, A.V.; USHAKOV, K.A., doktor tekhnicheskikh nauk, professor, zasluzhennyy deyatel' nauki i tekhniki; retsenzent; TURKUS, V.A., dotsent, retsenzent; KHANKHONKOV, V.I., kandidat tekhnicheskikh nauk; retsenzent; VEREVKIN, N.I., kandidat tekhnicheskikh nauk, retsenzent; DIMANT, P.I., inzhener, retsenzent; GEL'MAN, D.Ya., redaktor; LABUS, G.A., tekhnicheskiiy redaktor.

[Ventilator systems for elevators, mills, groats and mixed feed plants] Ventilatsionnye ustanovki elevatorov mel'nits, krupianyykh i kombikormovykh zavodov. Izd. 2-e pererab. i dop. Moskva, Izd-vo tekhnicheskoi i ekonomicheskoi lit-ry po voprosam zagotovok, 1954. 371 p.
(MLRA 7:11)

1. Dotsent Odesskogo tekhnologicheskogo instituta imeni Stalina (for Ventilation)
Panchenko)

MOGILEVSKAYA, S.Ye., kand. geologo-mineral. nauk, VEREVKIN, N.I., inzh.

Determining the quartz content in Gornaya Shoriya mines. Bezop.
truda v prom. 8 no. 11:44-45 N '64. (MIRA 18:2)

1. VostNIGRI.

VEREVKIN, N.N.; LASHKOV, A.I.

Investigating some flow distribution systems in mufflers.
Prom.aerodin. no.14:65-79 '59. (MIRA 13:6)
(Gas and oil engines--Mufflers)

VEREVEN, H. A.

<p>REPORT: This collection of articles is intended for engineers, technicians, and scientists specializing in industrial air dynamics and noise suppression of aerodynamic installations.</p> <p>CONTENTS: The collection contains papers on problems associated with noise suppression of aerodynamic installations. The subjects covered include: noise of practical value, noise suppression, jet noise, the aerodynamic and methods used in aerodynamic installations, the personnel are mentioned. All articles have been accompanied by references most of which are in Russian.</p>	
1. Aerodynamics, I. Ya. I. A. Gurevich, and I. Ya. Tulin. Investigation of the Effect of Quality of the Medium on the Level and Spectrum of the Aerodynamic Noise of Rotating Body	22
2. Filizova, E. B. Investigation of Noise Suppression for Large Ventilation Installations	33
3. Tulin, I. Ya., E. B. Gurevich, and A. G. Nudis. General Diagram with Noise-Reduction-Type Absorbers	43
4. Gurevich, I. Ya., and A. I. Isakovich. Investigation of General Noise-Reduction Diagrams for Supersonic	65
5. Isakovich, I. A. Some Methods for Investigating Sound-Absorbing Materials	80
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W/m/ee
6-7-60

VEREVKIN, N.S.

Problem concerning the development of the camera tubes of supersonic television systems. Trudy LEIS no.2:206-209 '57. (MIRA 15:5)
(Television camera) (Television--Picture tubes)

6:4780

84109

S/058/60/000/006/040/040
A005/A001

Translation from: Referativnyy zhurnal, Fizika, 1960, No. 6, p. 398, # 15652

AUTHOR: Verevkin, N.S.

TITLE: Pulse Luminescent Illuminating Tube²⁵

PERIODICAL: Tr. nauchno-tekhn. konferentsii Leningr. elektrotekhn. in-ta svyazi.
No. I. Leningrad, 1959, pp. 85-87

TEXT: A cathode-luminescent tube is briefly described, which makes it possible to obtain momentary high-intensity light flashes. The color, the duration, and the brightness of the flash depend on the luminophor chosen. ✓

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

TROYNIN, Mitrofan Fedorovich; USHAKOV, Nikolay Stepanovich; DYAD'KIN, Ye.I., inzh., retsenzent; VEREVKIN, M.S., kand.tekhn.nauk, red.; DUDUSOVA, G.A., red.izd-va; SHCHETININA, L.V., tekhn.red.

[Electric trucks] Elektrokary. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1960. 155 p. (MIRA 13:10)
(Industrial electric trucks)

AKSEMOV, Yu.V.; VEREVKIN, N.S.; ZHEBEL', B.G.; ZLOTNIKOV, S.A.;
KOLIN, K.T.; KONDRAT'YEV, A.G.; MISENKO, Yu.G.; ODNOL'KO,
V.V.; PARANETS, D.A.; SHMAKOV, P.V., red.; VENGRENYUK, L.I.,
red.; KARABILOVA, S.F., tekhn.red.

[Television; general course] Televidenie; obshchii kurs. Pod
red. P.V.Shmakova. Moskva, Gos.isd-vo lit-ry p' voprosam svyazi
i radio, 1960. 391 p. (MIRA 13:12)
(Television)

VEREVKIN, N.S.; SHMAKOV, P.V., red.; GAL'CHINSKAYA, V.V., tekhn.
red.

[Tubes for converting electrical information to vide
signals; manual for a course in television] Trubki dlia
preobrazovaniia elektricheskoi informatsii v videosignal;
uchebnoe posobie po kursu televideniia. Leningrad, LEIS.
No.6. 1961. 35 p. (MIRA 17:3)

TROYNIN, Mitrofan Fedorovich; USHAKOV, Nikolay Stepanovich;
FILIPPOV, N.M., inzh., retsenzent; ROZENGAUZ, B.M., inzh.,
retsenzent; VEREVKIN, N.S., kand. tekhn. nauk, red.;
YEMEL'YANOVA, Ye.V., red.; SHERMUSHENKO, T.A., tekhn. red.

[Manual for electricians] Spravochnaia kniga elektromontera.
Pod red. N.S.Verevkina. Leningrad, Lenizdat, 1962. 263 p.

(MIRA 16:2)

(Electric power distribution--Handbooks, manuals, etc.)

(Electric wiring--Handbooks, manuals, etc.)

VEREVKIN, P. N.

27869. VEREVKIN, P. N. — Induktornyye rel'sovyye tsepi. Sbornik nauch. Rabot (Leningr. Elektrotekhn in-t inzhenerov signalizatsii i svyazi zh-d. Transporta), vyp-3, 1949, S. 130-39.

SO: Letopis' Zhurnal'nykh Statey, Vol. 37, 1949

VEREVKIN, P. N.

Railroads - Electric Equipment

Inductive rail circuits. Sbor. nauch. rab., Letis, No. 3, 1949.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

ISHCHENKO, Yu.K.: ARZUNYAN, A.S.; VEREVKIN, S.I.

Increase the dependability of steel tanks. Stroil. truboprov.
8 no.11:14-16 '63 (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po stroitel'stву magistral'nykh truboprovodov (for Ishchenko). 2. Odesskiy neftyanoy tekhnikum (for Arzunyan). 3. Gosudarstvennyy institut po proyektirovaniyu spetsial'nykh sooruzheniy promyshlennogo stroitel'stva (for Verevkin).

SAFARYAN, M.K., kand.tekhn.nauk; VEREVKIN, S.I., inzh.; CHOLOYAN, G.S., inzh.

Restoring the deformed shell of a drop-shaped tank. Stroil. trubo-
prov. 6 no.9:17-18 S '61. (MIRA 14:9)
(Gasoline--Storage) (Tanks--Maintenance and repair)

9(1)

SOV/162-58-3-8/26

AUTHOR: Verevkin, S.M.

TITLE: The Excitation of an Infinite Cylinder With Heterogeneous Leontovich Boundary Conditions by a Magnetic Current Loop (Vozbuzhdeniye beskonechnogo tsilindra s neodnorodnymi granichnymi usloviyami Leontovicha ramkoy magnitnogo toka)

PERIODICAL: Nauchnyye doklady vysshey shkoly, Radiotekhnika i elektronika, 1958, Nr 3, pp 54-62 (USSR)

ABSTRACT: The author investigates the radiation of an antenna having the shape of a magnetic current loop, being placed around an infinite cylinder on whose surface the Leontovich boundary conditions [Ref 3] are satisfied. On the cylinder, underneath the antenna, there is an ideal conductor ring of finite length $l = l_1 + l_2$, as shown by figure 1. For obtaining a metallized surface under the magnetic current loop, the magnetic surface current is used with unknown distribution along z . The field of this current may be defined as a secondary field, satisfying the radia-

Card 1/3

SOV/162-58-3-8/26

The Excitation of an Infinite Cylinder With Heterogeneous Leontovich Boundary Conditions by a Magnetic Current Loop

tion conditions on the cylinder and the Leontovich boundary conditions. The distribution of the current along z must be achieved in such manner that, on the surface within the limits of the ring, the sum of the tangential components of the field of known and additional currents is equal to zero. The determination of the distribution law of the additional magnetic current density along z is achieved by solving an integral equation for satisfying this condition. The author derives formulae for the directivity pattern of the antenna. The results may be used, for example, for calculating the directivity diagram of a slotted ring antenna on a metal cylinder, which terminates at both ends (or at one end) in a dielectric rod of the same diameter. For deriving the formulae, the expressions from the work of G.T. Markov [Ref 4] were used. The author remarks at the end that the problem of the excitation of an infinite cylinder with heterogeneous Leontovich

Card 2/3

SOV/162-58-3-8/26

The Excitation of an Infinite Cylinder With Heterogeneous Leontovich Boundary Conditions by a Magnetic Current Loop

boundary conditions by an electric current loop with constant distribution of the current on the loop perimeter, may be solved analogously. The author expresses his gratitude to Doctor of Technical Sciences G.T. Markov for his valuable suggestions. There are 1 diagram and 4 Soviet references.

ASSOCIATION: Kafedra antennoykh ustroystv i rasprostraneniya radiovoln Moskovskogo energeticheskogo instituta
(Chair of Antenna Devices and Radio Wave Propagation of the Moscow Institute of Power Engineering)

SUBMITTED: December 30, 1957

Card 3/3

POPERECHENKO, B.A.; VEREVKIN, S.M., kand. tekhn. nauk, red.

[Antenna-feeder devices] Antenna-fidernye ustroistva.
Moskva, Mosk. energ.in-t. Pt.2. [Transmission lines]
Linii peredach. 1961. 76 p. (MIRA 16:8)
(Wave guides) (Antennas (Electronics))
(Microwaves)

VEREVKIN, S.M.

Excitation of an endless cylinder having nonuniform Leontovich
border conditions and a magnetic current frame. Nauch.dokl.vys.
shkoly; radiotekh. i elektron. no.3:54-62 '58. (MIRA 12:11)

1. Kafedra antennoykh ustroystv i rasprostraneniya radiovoln Moskovsk-
ogo energeticheskogo instituta. (Field theory) (Wave guides)

VEREVKIN, S.M.

SUBMITTED: December 7, 1957
 AUTHOR: Golubkov, P.Y. and Tsirking, Sh. Ye.
 TITLE: The Second All-Union Conference on Radioelectronics of the Ministry of Higher Education of the USSR (Voronezh) - News Item

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, No 3, pp 440 - 444 (USSR)

ABSTRACT: The conference took place during September 25 - 29, 1957, at the Scientific and Technical University of the Ministry of Higher Education of the USSR (Voronezh). The conference was attended by the representatives of some scientific research institutes of the Soviet Union, the Ukrainian Academies of Science, and industrial establishments and the interest in the determination of the papers presented and the determination of the plans for the future is high. The determination of the universities in the field of radioelectronics.

Card/16

A.I. Shiryov proposed (and proved by means of the reciprocity theorem) an interesting method for the investigation of delay systems. The method permits the measurement of electrical nonhomogeneities of delay systems, gives a high accuracy and requires comparatively little effort. The paper by Ye.M. Gershenson was devoted to the experimental investigation of an interesting modification of a periodic structure, i.e., a regular waveguide filled with a liquid in which an ultrasonic standing wave was excited. V.P. Sazonov described the results of an investigation of the distribution of electric fields in a number of important delay systems (comb, comb with a high-resistance input) by means of two methods (probe with a high-resistance input) and small perturbing objects. The author also obtained the distributions of tangential components of the electric fields along certain boundary surfaces, which are of considerable interest. In a number of cases, the author also measured the coupling impedance. Some of the lectures were devoted to the problems of diffraction patterns of antennas. Here one should mention the papers by Ye.M. Tsirking and Sh. Ye. Golubkov. The analysis of the excitation of the solids of frequency, the analysis of the oscillations in π -type and toroidal volume resonators and in π -type and cross-shaped waveguides was given in the papers by V.L. Fomin and V.M. Sedukhin, respectively. A number of the papers in the Electrodynamics Section dealt with the problem of the calculation of the junction of waveguides. Here, it is necessary to mention the papers by Ye.M. Tsirking and V.D. Luchinskii. The problem of construction of certain wideband devices was discussed by Ye.V. Anisimov and V.D. Luchinskii. The problem of the parameters of the Klystron outputs in U.S.P. devices by means of a symmetrical transformer by I.A. Dukhovnikova and M.M. Rayner. The behavior of various substances in electromagnetic fields at U.S.P. was discussed in the papers of G.Y. Gerasimova, U.P. Radin, I.A. Shabatman, A.I. Pliashchikov, A.L. Yavits, M.S. Sedukhin, and A.A. Kuznetsov.

Card/16 which are important in the analysis of the directional

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and his collaborators described the principle of operation of a molecular clock having an accuracy of 10^{-9} . The results of a theoretical investigation of the molecular radiation in high-frequency fields were given in the papers of V.M. Fomin, entitled "Radiation of the Molecules in Strong High-Frequency Fields" and "The Spontaneous Radiation of Molecules at Ultra-High Frequencies". In the second of these papers, the author came to the conclusion that the width of the spectral line of the spontaneous radiation at U.S.P. is finite. The author also presented a classical analogy for the phenomenon of coherence in the spontaneous radiation.

Card (1/16)

VEREVKIN, S.M.

Approximate solution of the problem of the excitation by a round
slot of thick cylinder of finite length. Izv.vys.ucheb.sav.; radiofiz. 1
no.3:73-82 ' 58. (MIRA 12:1)

1. Moskovskiy energeticheskiy institut.
(Radio, Shortwave--Antennas)

SOV/46-5-3-15/38

25(8), 24(1)

AUTHORS: Verevkin, V.M., Yevdokimov, N.A., Zharkov, K.V. and Merkulov, L.G.

TITLE: An Ultrasonic Recording Flaw Detector for Metal Sheets (Ul'trazvukovaya ustanovka s zapis'yu izobrazheniy defektov v metallicheskih listakh)

PERIODICAL: Akusticheskiy zhurnal, 1959, Vol 5, Nr 3, pp 364-366 (USSR)

ABSTRACT: The paper describes an ultrasonic flaw detector for quality control in rolling of sheets, developed at the Leningrad Electro-Technical Institute imeni V.I. Ul'yanov (Lenin). The detector (shown schematically in Fig 1) works on the shadow principle. The sheet *KL*, whose quality is controlled passes in water between an array of radiating vibrators *UV* and an array of receiving vibrators *RV*. Fig 1 shows for the sake of simplicity only nine pairs of vibrators; in the actual detector their number is considerably greater. Ultrasonic oscillators *G*, working at 1.3 Mc/s, feed certain groups of radiators. The receivers are also grouped and their signals are fed to amplifiers *P*. The image of the defect is recorded on heat-sensitive paper by means of a recorder *RU*. The radiators are switched on consecutively by means of a synchronizer *S* which produces in this way an ultrasonic beam passing 50 times per second across the continuously moving metal sheet. If the beam meets a defect in the sheet a signal is produced at the output amplifying stage. A resolving device *RU*

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SOV/46-5-3-15/82

An Ultrasonic Recording Flaw Detector for Metal Sheets

(circuit in Fig 2) determines which pair or pairs of the vibrators are responsible for the signal (e.g. pairs 5, 6 and 7 in Fig 1). At the recording stage traces are produced which show the location and the extent of the flaw, as shown in Fig 3. The latter figure represents a pattern produced by a cleavage in a 40 mm thick metal sheet recorded by a detector with 64 vibrator pairs. The detector can be used to control the quality of sheets with comparatively rough surfaces immediately after rolling. The principle of the detector is in fact a new method of ultrasonic visualization and could, therefore, be used for purposes other than factory quality control. There are 3 figures.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V.I. Ul'yanova (Lenina).
(Leningrad Electro-Technical Institute imeni V.I. Ul'yanov (Lenin) ,

SUBMITTED: March 30, 1959

Card 2/2

SOV/32-25-4-39/71

28(5)

AUTHORS:

Verevkin, V. M., Zharkov, K. V.

TITLE:

Ultrasonic Immersion-crack Automatic Detector (Ul'trazvukovoy immersionnyy defektoskop-avtomat)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 4, pp 475-477 (USSR)

ABSTRACT:

An automatic device for sorting out defective piston rings was designed. It consists of the crack detector and the sorting mechanism (Fig 1) with a relay scheme. With corresponding modifications, the sorting mechanism of the described device can also be used for testing other articles. The defective object passes a test course with 4 stages while the test of faultless products is interrupted at the third stage. The working principle of the device is as follows: The object to be tested is received by a device in form of a Maltese cross (1st stage), is held by an electromagnet on a control table and tested by the piezoelectric vibrator of the crack detector by means of ultrasonic impulses (2nd stage). In the 3rd stage, the cross is turned with the sample to an opening in which the faultless articles drop. If the object has a fault, the ultrasonic impulse is reflected; this operates an electromagnet above the opening which holds the object and makes it go to the next

Card 1/2

SOV/32-25-4-39/11

Ultrasonic Immersion-crack Automatic Detector

opening for defective products. A schematic sketch of the arrangement of the device is given (Fig 2). It is mentioned as a peculiarity that the so-called "immersion method" is applied, i.e. a liquid layer, between the vibrator and the article to be tested, which secures a constant acoustic contact and facilitates the exchange of the articles. On metallic objects with a coarse-grained structure and rough-machined surfaces, defects of about 0.1 mm^2 can be observed. The X-ray picture of two piston rings (Fig 3a) and of an impulse of the control beam tube (Fig 3b) are given as examples; the existing defects can be better observed in the latter. There are 3 figures.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V. I. Ul'yanova-Lenina (Leningrad Electro Engineering Institute imeni V. I. Ul'yanov-Lenin)

Card 2/2

MAZOV, M.V.; VEREVKIN, V.M.; ALEKSEYEV, V.V.

Excitation of elastic waves in soil using electric charges
in a liquid medium. Vop.razved.geofiz. no.4:65-69 '64.
(MIRA 19:1)

MERKULOV, L.G.; VEREVKIN, V.M.

Passage and reflection of an ultrasonic pulse for a parallel plate in a fluid. Defektoskopiia no. 5:13-21 '65 (MIRA 19:1)

1. Leningradskiy elektrotekhnicheskii institut imeni Ul'yanova (Lenina).

L 3711:1-66 EWT(d)/EWT(1)/EWP(c)/EWP(v)/T/EWP(k)/ EWP(1) LJP(c)
 ACC NR: AP6014419 (N) SOURCE CODE: UR/0381/65/000/005/0013/0021

AUTHORS: Merkulov, L. G.; Verevkin, V. M.

ORG: Leningrad Electrotechnical Institute im. V. I. Il'yakov (Lenin)
 Leningradskiy elektrotekhnicheskiy Institut

TITLE: Transmission and reflection of an ultrasonic impulse for a plane-parallel plate in a liquid

SOURCE: Defektoskopiya, no. 5, 1965, 13-21

TOPIC TAGS: sound wave, sonic pulse, sound propagation, ultrasonics

ABSTRACT: A theoretical analysis of the transmission and reflection of ultrasonic impulses by a plane-parallel plate immersed in a liquid was carried out. The analysis was developed by means of the Fourier integral method. Two particular cases were treated: 1) the signal shape had a bell-shaped form given by

$$p_1(t) = e^{i\omega_0 t - \delta_0^2 t^2}$$

and 2) the signal had a rectangular shape given by

$$p_1(t) = \sigma(t) e^{i\left(\omega_0 t - \frac{\pi}{2}\right)}$$

UDC: 620.179.16

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L 37141-66

ACC NR: AP6014419

The shapes of the derived transmitted and reflected signals for the two initial shape signals are shown graphically. Distortion of the shapes of the transmitted and reflected signals depends on the ratio of the sonic resistances of the plate and liquid medium. To decrease signal distortion, it is recommended that the plate thickness correspond to one quarter of the sonic wavelength. Orig. art. has: 4 graphs and 31 equations.

SUB CODE: 20 / SUBM DATE: 22Sep65 / ORIG REF: 003

14
Nondestructive testing

Card 2/2 af

POPOV, B.G., kand.tekhn.nauk; MEDVEDEVA, V.S.; VEREVKIN, V.N.

Problems of the formation of charges of static electricity in
technological processes. Zhur.VKHO 9 no. 3:253-258 '64.
(MIRA 17:9)

VEREVKIN, V.N.; POPOV, B.G.; ROYZEN, I.S.

Electrification of plastics in pneumatic conveying systems.
Plast. massy no.2:62-66 '66. (REF 19:2)

ACC NR: AM6022149

Monograph

UR/

Verevkin, Yuriy Nikolayevich

Electroluminescence apparatus of marine automation systems (Elektro-lyuministssentnyye ustroystva sudovoy avtomatiki) Leningrad, Izd-vo "Sudostroyeniye", 1966. 149 p. illus., biblio. 1800 copies printed.

TOPIC TAGS: marine engineering, marine equipment, automation, electroluminescence panel, electroluminescence

PURPOSE AND COVERAGE: This book is intended for engineers and technicians working in the field of marine automatic equipment. It discusses the physical bases of electroluminescence, the chemistry of electroluminescent materials, and the properties of electroluminescent devices. The technology of preparing electroluminescent devices and their fields of application are examined, and new visual display methods, light converters and amplifiers, photoactive elements, and memory devices are described. The author expresses his gratitude to V. A. Dubovik, V. P. Budtov, and G. A. Savel'yev for their useful recommendations for improving the book. There are 128 references, 69 of which are Soviet.

Foreword --

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[Collection of laboratory papers on amplifying and radio
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AUTHORS: Rodionov, S. F., Verevkin, Yu. N., Shpakov, N. S.

TITLE: The eclipse effect in the O_3 region of the solar spectrumPERIODICAL:: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii,
no. 1, 1963, 67-72

TEXT: After a short description of earlier observations of the eclipse effect (1952, 1954) the authors report on their own observations made during the total solar eclipse (February 15, 1961). Their ozonometric measurements were a part of the solar spectral research program of the Laboratoriya fotometrii NIFI LGU (Laboratory of Photometry of the NIFI LGU). The observations were made in Rostov (center of the belt of totality), in Vol'sk, Saratov oblast' (boundary of the belt) and in Roshchino, Leningrad oblast' (partial eclipse). The results are shown in Fig. 3. The logarithms of the relative intensities ($\lambda_1=3100$, $\lambda_2=3300$, $\lambda_3=4100\text{\AA}$) of scattered light from the zenith are plotted versus time. The effect was for the first time observed with a cloudy sky. The experiments

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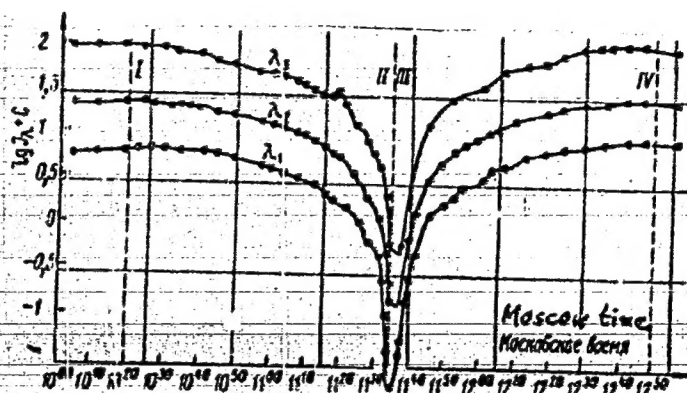
The eclipse effect in the ...

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verified the presence of an sciptic effect resulting in a reduction of relative transparency of the atmosphere in the O_3 spectral region. A "heliophysical" explanation of the effect yields only a qualitative result (DAN SSSR, 106, no. 4, 1956). Other explanations - e.g. the formation of selectively scattering aerosols - are also more or less unsatisfactory. There are 5 figures.

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Fig. 3



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RODIONOV, S.F.; VEREVKIN, Yu.N.; SHPAKOV, N.S.

Eclipse effect in the ozone region of the solar spectrum. Vest.
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